AUTHORITY: 23 U.S.C. 101(e), 109, and 315; 49 CFR 1.48(b)

SOURCE: 61 FR 67174, Dec. 19, 1996, unless otherwise noted.

§ 626.1 Purpose.

To set forth pavement design policy for Federal-aid highway projects.

§ 626.2 Definitions.

Unless otherwise specified in this part, the definitions in 23 U.S.C. 101(a) are applicable to this part. As used in this part:

Pavement design means a project level activity where detailed engineering and economic considerations are given to alternative combinations of subbase, base, and surface materials which will provide adequate load carrying capacity. Factors which are considered include: Materials, traffic, climate, maintenance, drainage, and life-cycle costs.

§ 626.3 Policy.

Pavement shall be designed to accommodate current and predicted traffic needs in a safe, durable, and cost effective manner.

PART 627—VALUE ENGINEERING

Sec.
627.1 Purpose and applicability.
627.3 Definitions.
627.5 General principles and procedures.

AUTHORITY: 23 U.S.C. 106(d), 106(f), 302, 307, and 315; 49 CFR 18.

SOURCE: 62 FR 6868, Feb. 14, 1997, unless otherwise noted.

§ 627.1 Purpose and applicability.

(a) This regulation will establish a program to improve project quality, reduce project costs, foster innovation, eliminate unnecessary and costly design elements, and ensure efficient investments by requiring the application of value engineering (VE) to all Federal-aid highway projects on the National Highway System (NHS) with an estimated cost of $25 million or more.

(b) In accordance with the Federal-State relationship established under the Federal-aid highway program, State highway agencies (SHA) shall assure that a VE analysis has been performed on all applicable projects and that all resulting, approved recommendations are incorporated into the plans, specifications and estimate.

§ 627.3 Definitions.

Project. A portion of a highway that a State proposes to construct, reconstruct, or improve as described in the preliminary design report or applicable environmental document. A project may consist of several contracts or phases over several years.

Value engineering. The systematic application of recognized techniques by a multi-disciplined team to identify the function of a product or service, establish a worth for that function, generate alternatives through the use of creative thinking, and provide the needed functions to accomplish the original purpose of the project, reliably, and at the lowest life-cycle cost without sacrificing safety, necessary quality, and environmental attributes of the project.

§ 627.5 General principles and procedures.

(a) *State VE programs.* State highway agencies must establish programs to assure that VE studies are performed on all Federal-aid highway projects on the NHS with an estimated cost of $25 million or more. Program procedures should provide for the identification of candidate projects for VE studies early in the development of the State's multi-year Statewide Transportation Improvement Program.

(1) *Project selection.* The program may, at the State's discretion, establish specific criteria and guidelines for selecting other highway projects for VE studies.

(2) *Studies.* Value engineering studies shall follow the widely recognized systematic problem-solving analysis process that is used throughout private industry and governmental agencies. Studies must be performed using multi-disciplined teams of individuals not personally involved in the design of the project. Study teams should consist of a team leader and individuals from different speciality areas, such as design, construction, environment, planning, maintenance, right-of-way, and other areas depending upon the